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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/836,860	04/18/2001	Michael Heckmeier	MERCK 2226	5889
23599 75	590 02/18/2003			
MILLEN, WHITE, ZELANO & BRANIGAN, P.C. 2200 CLARENDON BLVD. SUITE 1400			EXAMINER	
			WU, SHEAN CHIU	
ARLINGTON,	VA 22201			
,			ART UNIT	PAPER NUMBER
			1756	2
			DATE MAILED: 02/18/2003	9

Please find below and/or attached an Office communication concerning this application or proceeding.

•		CVL				
	Application No.	Applicant(s)				
Office Action Comment	09/836,860	HECKMEIER ET AL.				
Office Action Summary	Examiner	Art Unit				
	Shean C Wu	1756				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status	within the statutory minimum of thirty (30) days ill apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE	ely filed swill be considered timely. the mailing date of this communication. O (35 U.S.C. § 133).				
1) Responsive to communication(s) filed on 03 D	<u> ecember 2002</u> .					
2a)⊠ This action is FINAL . 2b)☐ Thi	s action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims	Ex parto Quaylo, 1000 O.D. 11, 4	00 0.0. 210.				
4) Claim(s) 1-25 is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-25</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9) The specification is objected to by the Examiner.						
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.						
If approved, corrected drawings are required in reply to this Office action.						
12) The oath or declaration is objected to by the Examiner.						
Priority under 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a)⊠ All b)☐ Some * c)☐ None of:						
1.⊠ Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).						
a) The translation of the foreign language provisional application has been received. 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.						
Attachment(s)	5 priority uniter 35 0.5.0. 99 120	anu/UL 12 1.				
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)		(PTO-413) Paper No(s) atent Application (PTO-152)				
3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)						

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DETAILED ACTION

Claim Rejections - 35 USC § 102

- 1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:
 - A person shall be entitled to a patent unless -
 - (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 14 and 24-25 are rejected under 35 U.S.C. 102(b) as being anticipated by JP 11-158,138.

The reference discloses a liquid crystal composition comprising a compound represented by the formula (I), which anticipated the claimed invention.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 1-13 and 15-23 are rejected under 35 U.S.C. 103(a) as being unpatentable over JP 9-157654 in view of JP 11-158138.

The reference (JP 9-157654) differs from the claims in that the claims exclude the compound of the formula I and used in IPS display device. The liquid crystal compounds shown in Examples 3-3 of JP 9-157654 are corresponding to the compounds of the

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present formulae II, III and V. The compounds of Examples 3-5 are corresponding to the compounds of the present formulae II, III and IV. The concentration ranges are well within the present invention. The liquid crystal properties (such as birefringence, flow viscosity, resistivity and clearing point) for these two examples are similar to the present invention except the rotational viscosity. However, the compound of formula I in the present claim is disclosed by JP 11-158138, which has similar chemical structure and properties of the compound of JP 9-157654. Also, JP 9-157654 teaches that the liquid crystal compositions depend on their properties can be used as components for IPS (inplane switching), ECB (birefringence control), GH (guest-host) mode, TN (twisted nematic), STN (super-twisted nematic) and AM (active nematic). Because the compound of JP 11-158138 and JP 9-157654 has similar chemical structure, it would have been obvious to those skilled in the art to take advantage of the reference compositions having unique liquid crystal properties (JP 9-157654) and substitute the compound of JP 11-158138 for JP 9-157654 to arrive at the claimed invention.

Response to Arguments

5. Applicant's arguments with respect to claims 1-25 have been considered but are moot in view of the new ground(s) of rejection.

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Conclusion

6. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Shean C Wu whose telephone number is 703-308-3956. The examiner can normally be reached on Monday-Friday 9:30 -6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mark Huff can be reached on 703-308-2464. The fax phone numbers for the organization where this application or proceeding is assigned are 703-305-7718 for regular communications and 703-872-9311 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0661.

PRIMARY EXAMINER

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